

19980604.qrp v01_n112.qrs.980604

Date: Thu, 4 Jun 1998 19:03:13 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1112

QRP-L Digest 1112

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- 2) [12333] LED Keyer Giveaway !
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- 3) [12334] KnightLite's QRP FD Invitation
by Paul Stroud <aa4xx@ipass.net>
- 4) [12335] More Spanish Keys Available
by "Marshall Emm" <mgemm@mtechnologies.com>
- 5) [12336] testing
by Jerry ODell <jwodell@mpdr0.detroit.mi.ameritech.net>
- 6) [12337] Elmer 101: Part 5- bandpass tuning
by Bensondj@aol.com
- 7) [12338] Re: GPS question results
by DYARNES@aol.com
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by Henry Freedenberg <henryf@quartz.gly.fsu.edu>
- 9) [12340] ATTENTION TEN-TEC PM-1 USERS
by trainman@netwiz.net
- 10) [12341] NW QRP "NERDS" Contest Update
by Bill Todd <bill@willapabay.org>
- 11) [12342] Re: Elmer 101: Part 5- SW30+ bandpass tuning
by Dale Scott <dcscott@us.ibm.com>
- 12) [12343] Re: GPS question results
by Monte Stark <ku7y@dri.edu>
- 13) [12344] Carlsbad/Guadalupe Pass TX repeaters?
by The Boices <boice@bigfoot.com>
- 14) [12345] Elmer 101: Part 6, RF buffer and driver
by Michael Maiorana <mikemo@ibm.net>
- 15) [12346] Sierra's J310 arrived!
by McNelly <72507.235@compuserve.com>
- 16) [12347] Re: Elmer 101: Kudos for Michael
by Paul Harden <pharden@aoc.nrao.edu>
- 17) [12348] Re: Elmer 101: Kudos for Michael
by Dale Scott <dcscott@us.ibm.com>
- 18) [12349] [Fwd: Re: Foxhunt Rules Please?]
by Dave Willey <dave@cds1.net>
- 19) [12350] gps & flying

- by "Duane" <duane@flinet.com>
- 20) [12351] Has anybody got a.....
by Wayne Dillon <w.dillon@ic.ac.uk>
- 21) [12352] contest scores
by "Evert R. Halbach" <cs-erh@nich-nsunet.nich.edu>
- 22) [12353] re: nicad help
by kaliic <kaliic@ime.net>
- 23) [12354] pixie 2 kits??
by "Jay Heffner" <cjayheff@erols.com>
- 24) [12355] N1IRZ's book
by wa5whn@juno.com
- 25) [12356] Weird Panasonic NiCd
by "Daniel Wee, 9V1ZV" <daniel@pandora.lugs.org.sg>
- 26) [12357] band modules for Sierra
by Scott Howell <whowell@hq.nasa.gov>
- 27) [12358] Mystery Toroid?
by Chuck Carpenter <w5usj@webwide.net>
- 28) [12359] Re: Weird Panasonic NiCd
by Michael Maiorana <mikemo@ibm.net>
- 29) [12360] Single Knob Antenna Tuner
by "James R. Duffey" <ji3m@maxwell.com>
- 30) [12361] Icom-725 for sale
by jim <kw3u@warwick.net>
- 31) [12362] Re: Single Knob Antenna Tuner
by Ed Loranger <we6w@qsl.net>
- 32) [12363] Canadian RS Freq. meter sale
by Pierre Constantineau <pierre@cmpe.ubc.ca>
- 33) [12364] Argonaut II model 835
by k6hcyj@juno.com (Marv Fagenson)
- 34) [12365] Re: Mystery Toroid?
by "Hugo W. Catta" <hugo@banet.net>
- 35) [12366] Wanted 2m multi-mode
by jim nestor <nestoji@home.com>
- 36) [12367] Frequency meter input protection
by Pierre Constantineau <pierre@cmpe.ubc.ca>
- 37) [12368] Re: Coupling your TX to your ANTENNA.
by Ed Loranger <we6w@qsl.net>
- 38) [12369] Re: Coupling your TX to your ANTENNA.
by Ed Loranger <we6w@qsl.net>
- 39) [12370] Re: Argonaut II model 835
by "Paul R. Valko" <prvalko@oakland.edu>
- 40) [12371] Small Wonder Labs New Frequency Counter
by Jerry Parker <jparker@fix.net>
- 41) [12372] radio shack books
by ac5ez@webtv.net (Larry B)
- 42) [12373] N1IRZ's Book and Bob's School of Quantum Mechanics
by "James R. Duffey" <ji3m@maxwell.com>
- 43) [12374] My mystery torroid (experience)

- by w4pj@w4bkx.ampr.org (Scott)
- 44) [12375] Re: band modules for Sierra
by "Brian K. Short" <bshort@speedchoice.com>
- 45) [12376] Ferrites torn from Televisions for ham use?
by Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>
- 46) [12377] Re: Ferrites torn from Televisions for ham use?
by Chris Trask <ctrask@primenet.com>
- 47) [12378] LCDs in older rigs/etc.
by Ed Tanton <n4xy@att.net>
- 48) [12379] Re: radio shack books
by plundy@max.state.ia.us (Paul Lundy)
- 49) [12380] CQrp Meeting
by SABorns@aol.com
- 50) [12381] NOW SHOWING: The ARS Sojourner, June '98
by Richard Fisher <nu6sn@yahoo.com>
- 51) [12382] Re: N1IRZ's Book and Bob's School of Quantum Mechanics
by David J Adams <adamsclan@netgate.net>
- 52) [12383] Re: LCDs in older rigs/etc.
by Ed Loranger <we6w@qsl.net>
- 53) [12384] picture this
by "Rattray, Bruce" <Rattray@siast.sk.ca>
- 54) [12385] 10 meters report
by fcs@juno.com (dick rood)
- 55) [12386] SGC 2020 - latest info
by Ed Tanton <n4xy@att.net>
- 56) [12387] FS: MFJ 9020 20m CW QRP TRX
by "Ed Jensen" <k5ed@dzn.com>
- 57) [12388] HTX-100
by n4js@pobox.com
- 58) [12389] 2m multimode versus transverters
by jim nestor <nestoji@home.com>
- 59) [12390] Re: LCDs in older rigs/etc.
by nils@juno.com (Nils R Young)

Date: Wed, 03 Jun 1998 16:02:16 PDT
From: "laura halliday" <marsgal42@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [12332] Re: Antenna Question - Field Day
Message-ID: <19980603230216.19654.qmail@hotmail.com>
Content-Type: text/plain

Why not use an inverted v? Tie the balloon(s) to the apex
of the v and anchor the ends of the wires as you need
to. Two support wires can't hurt if it gets windy...

A dipole is a dipole is a dipole. A touch less than 1/2

wavelength (about 11 meters per element), prune to desired resonance. Hard to botch.

Laura Halliday VE7LDH "Laisse le vent tout emporter..."
Grid: CN88hk IOTA: NA036 - Foly/Viennet

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Wed, 3 Jun 1998 16:12:22 -0700
From: Conrad <radman@best.com>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [12333] LED Keyer Giveaway !
Message-ID: <01BD8F0A.65542460.radman@best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Fellow QRPers,

There's still time to win !!

The closing bell for the Steve Webber LED Keyer Essay Contest is set for midnight (EST) Friday, June 5, 1998. Steve - the guy who melts solder in the White Mountains of New Hampshire -- and I have received numerous literary morsels. Each 50-word entry is uniquely deserving of a visit from Dick Clark, Ed McMahon and the Prize Patrol. Naturally, there can be only one final winner and we'll have to mail the prize as Dick, Ed and the Patrol can't make it. But you can still win the \$25 keyer kit!

Hams and non-hams from all corners of the earth may enter. The rules are simple. In fact, there are no rules! Just write 50 words describing, "why I need a keyer." The 'words' are not limited to 5-character Morse words. They may be of any length. You may use more than 2222 characters in the essay. (I think a few people confused this essay contest with that *other* contest.) The contest is open to all persons in any country that the US can legally trade with. You needn't be currently licensed. You might live in Zimbabwe. You might be a six year old Novice in Goodgosh, Alaska. You needn't be present to win. All you have to do is tell your story. Good Luck !

Please send your entries directly to Steve Weber:
kd1jv@moose.ncia.net

72 - Conrad Weiss - NN6CW

Date: Wed, 03 Jun 1998 19:48:35 -0400
From: Paul Stroud <aa4xx@ipass.net>
To: klqrp <klqrp@waterw.com>, QRP-L <QRP-L@Lehigh.EDU>
Subject: [12334] KnightLite's QRP FD Invitation
Message-ID: <3575E0D3.79DA95ED@ipass.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gang,

The KnightLites will be gathering at the farm of AA4XX for FD this year. We invite anyone interested in QRP to consider joining us.

The site is located about twelve miles south of Raleigh, NC near Wake Technical College. Our FD Philosophy is simple--Have Fun!! We'll mix operating and socializing, operating most HF bands and some VHF digital modes.

If you're looking for a opportunity to meet some friendly folks, and to experience the thrill of QRP FD, make your plans to join the WQ4RP Gang.

Sor far, the lineup of operators includes:

WJ4P	Randy	Summerville,	SC
WA4NID	Dave	Durham,	NC
AE4IC	Bob	Greensboro,	NC
WF4I	Derek	Greensboro,	NC
AA4XX	Paul	Raleigh,	NC

72,

Paul Stroud (919) 779-1637 nr Raleigh, NC

Date: Wed, 3 Jun 1998 18:06:53 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-l@Lehigh.EDU, cqclist@mtechnologies.com,

Milestone.Technologies.Announcement.List@edison.chisp.net
Subject: [12335] More Spanish Keys Available
Message-ID: <199806040005.SAA05519@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Llaves Telegraphicas Artesanas (LTA) Keys

We've now received stocks of the gold plated keys from LTA ("Telegraph Key Craftsmen") in the Balearic Islands of Spain. Images and prices can be found on the web site at <http://www.mtechnologies.com/lta>. Summary info follows for both brass and gold plated models.

Those listed here are available now in limited quantities. Shipping and handling is \$5 for Priority Mail or \$15 for FedEx Second Day Air--per order.

Model CRD combo (CRI paddle and GMV key). \$118.95.
Model CRDO (gold) \$138.95.

Model GMP mini straight key \$48.95.
Model GMP0 (gold) \$58.95.

Model CRV0 small straight key (gold) \$68.95.

Model GMV deluxe straight key \$68.95.

Model CRI dual paddle \$74.95 Model CRI0 (gold plate) \$88.95.
Model CRI0 (gold) \$88.95

Model GMS0 semi-auto "bug" (gold) \$118.95.

Model GMM0 "cootie key" (gold) \$78.95.

Call 1-800-238-8205 for credit card orders or call 303-752-3382 for more information. Secure on-line ordering is available at <http://www.mtechnologies.com>

Date: Tue, 02 Jun 1998 20:14:52 -0700
From: Jerry ODell <jwodell@mpdr0.detroit.mi.ameritech.net>
To: qrp-1@Lehigh.EDU
Subject: [12336] testing

Message-ID: <3574BFAC.E1E8D254@mailhost.det.ameritech.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

testing, testing de w8gnd

Date: Wed, 3 Jun 1998 20:30:31 EDT
From: Bensondj@aol.com
To: dcscott@ibm.net, dcscott@us.ibm.com
Cc: qrp-1@Lehigh.EDU
Subject: [12337] Elmer 101: Part 5- bandpass tuning
Message-ID: <6e02839.3575eaa8@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Date: Wed, 3 Jun 1998 11:41:15 -0400
>>From: Dale Scott <dcscott@us.ibm.com>
>>To: <qrp-1@Lehigh.EDU>
>>Subject: [12298] Elmer 101: SW30+ Bandpass Problem

>>
Glen, VE3DNL, suggested that perhaps my scope probe was adding enough capacitance to the circuit to cause this problem. Following his suggestion, I went ahead and installed the Q4 buffer (and related resistors) and redid the alignment with my scope probe at the emitter of Q4 rather than the base. This effectively isolated the probe from the bandpass filters. The results proved to be quite interesting. There is now a definite peak about mid-range in T3.

>>Dave Benson suggested a different solution which was to add 10-22pf capacitance
>>across T3 (ie C32). I will try that this evening and report the results.
I'm
>>betting that the two solutions together solve the problem.

I assumed that you were looking at Q4's emitter, thus isolating the probe capacitance from the tuned circuit. As I look back, though, I didn't expressly say that anywhere in the manual- an oversight on my part. Scope probe capacitance will indeed upset the operation of that bandpass filter, and what you reported makes sense in light of the presence of probe capacitance. I'd recommend moving the measurement point to Q4's emitter and repeaking T2/T3- the extra capacitance I suggested earlier shouldn't be necessary.

73, Dave- NN1G

Date: Wed, 3 Jun 1998 20:49:33 EDT
From: DYARNES@aol.com
To: rakefet@rakefet.com, qrp-1@Lehigh.EDU
Subject: [12338] Re: GPS question results
Message-ID: <6e9d2923.3575ef1f@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

In a message dated 6/2/98 1:02:37 PM US Mountain Standard Time,
rakefet@rakefet.com writes:

<< Fancy units that display maps are OK for use in a vehicle, but the maps
aren't
good enough for hiking. >>

Eine minute Vic! GPS units that display maps (i.e. the Garmin GPS III)
display maps IN ADDITION TO doing all the other stuff, not in lieu of. You
don't have to use the maps, but they sure are nice. Plus, you frequently will
see lakes, rivers, RR tracks, secondary roads, etc. displayed on the map page.
Thus, you have a lot of good reference points. Of course you should never go
to the woods without a map and a compass. However, with something like the
Garmin GPS III you may not need to pull either item out of your bag!

The price is getting better all the time, and boy does this thing do lots of
neat things. My view (and the reason I bought a GPS III) is that, if you are
willing to spend \$250 or so on a "good" unit, you might as well spend another
\$100 to get all the goodies. I think the "bang for the buck" for the extra
\$100 was proportionately more than for the \$250 basic price. This can be
verified (or refuted) by comparing the Garmin GPS II to the Garmin GPS III.
The price difference is about \$100.

By the way, I don't think you would be very happy with one of the \$100-\$150
units. The ones I have seen are pretty basic and S-L-O-W! Lots of
compromises. Anyway, test them first if at all possible.

72 de Dave W7AQK

P.S. By any chance are you a pilot? If so, be sure to ask how high a speed
the unit will display. A lot of the older and/or lower priced units won't go
above 95 mph or so.

Date: Wed, 03 Jun 1998 22:03:53 -0400
From: Henry Freedenberg <henryf@quartz.gly.fsu.edu>
To: DYARNES@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [12339] Re: GPS question results
Message-ID: <35760088.EBB6F7CC@quartz.gly.fsu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

DYARNES@aol.com wrote:

> By the way, I don't think you would be very happy with one of the \$100-\$150
> units. The ones I have seen are pretty basic and S-L-O-W! Lots of
> compromises. Anyway, test them first if at all possible.

I'm tired of everyone dumpng on low cost GPS'. A unit like the GPS II will do anything most people on this list will ever need. Maybe the answer is to become familiar with how a GPS works and then start worrying about which unit to buy.

An 8 channel receiver may be slow but we are talking about the difference between 3-4 updates per minute and 30 updates per minute. Any receiver will use the 4-5 most optimally placed birds to determine your position. The additional satellites tracked by a 12 channel unit will, in most cases not be used by the tracking algorithm. The position determined by an 8 channel stand alone receiver is just as good as the position determined by a 12 channel simultaneous tracking engine...the only difference is the speed of the update. The satellites transmit a pseudorandom code below the ambient noise level. The signal is either there or it isn't. A cheap unit can determine this as well as an expensive unit. As a practical matter, buy a GPS with a detachable antenna and provision for NMEA output. The GPs II/II+ does all this at an attractive price. Incidentally, the engine on the GPS II is the same as the engine on the 38. The II is more flexible.

If you need additional precision, you should add a HF differential beacon receiver or buy a mapping unit (megabucks). HF differential beacons are subject to their own problems.

Henry

Date: Wed, 3 Jun 1998 19:13:36 -0700
From: trainman@netwiz.net
To: qrp-1@Lehigh.EDU
Subject: [12340] ATTENTION TEN-TEC PM-1 USERS
Message-ID: <v01530500b19bb27d0ee9@[208.164.208.134]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I am new to the list and I would like to correspond PRIVATELY (off list) with any Ten-Tec PM-1 users or QRP'ers familiar with this rig.

73,

Matt, N4DLA/6

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Date: Wed, 03 Jun 1998 19:29:37 -0700
From: Bill Todd <bill@willapabay.org>
To: nwq-1@scn.org
Cc: qrp-1@Lehigh.EDU
Subject: [12341] NW QRP "NERDS" Contest Update
Message-ID: <1.5.4.32.19980604022937.0072ac20@willapabay.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello folks -

I have revised my web site just a bit to include the complete information on our club's "NERDS" Contest on Saturday, September 12, 1998 - our official Club Web Site should have the information shortly.

Also, I enlarged the map of Bay Center, WA (the site of our ARRL Field Day

event) so that you can actually "SEE" it (hi).

CUL, Bill-N7MFB

My personal web site is at: <http://www.willapabay.org/~bill>

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<http://www.willapabay.org/~bill>

ICQ me at #8926298

Date: Wed, 3 Jun 1998 22:46:51 -0400
From: Dale Scott <dcscott@us.ibm.com>
To: <Bensondj@aol.com>
Cc: <qrp-1@Lehigh.EDU>
Subject: [12342] Re: Elmer 101: Part 5- SW30+ bandpass tuning
Message-ID: <50301000213203160000002L062*@MHS>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: quoted-printable

Dave,

The procedural problem (measuring the waveform at Q4's base rather than at the emitter) did not result from any ambiguity in your manual. The Elmer 101 Part 5 had us stop prior to installing Q4 or any of its biasing resistors and then instructed us to measure the waveform specifically at the base of Q4 (no signal at emitter until buffer components are added in subsequent lesson).

As I said, I went ahead and put the buffer section in and while that helped it did not totally solve the problem. I was then seeing a peak more toward the middle of T3's range but when I hit the peak (going CCW) rather than seeing a reduction in amplitude what I saw was a degeneration of the waveform which required I unkey and rekey the transmit section.

I took your advice and put 22pf in C32 and found that threw T3 all the way to the CW stop. Reduced it to 10pf and found a nice solid peak near mid-r=

ange.

That, however then caused T2 to hit its stop. I then put 10pf in for C=30 and am pleased to say that I now have both transformers showing nice solid = peaks near mid-range.

Thanks to all who helped with this problem. I'm really glad it happened as I now know a lot more about this portion of the rig than I ever would have had it worked.

Dale C. Scott
IBM -- Engineering Technology Solutions
(206) 587-2784 8/277-2784

Internet: (work) dcscott@us.ibm.com
(home) dcscott@ibm.net
OV/VM: dcscott@ibmusm54
=

Date: Wed, 3 Jun 1998 20:13:59 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: DYARNES@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [12343] Re: GPS question results
Message-ID: <Pine.SOL.3.96.980603201023.27123A-1000000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Dave and all,

For those who fly, King/Bendix has a hand held AM radio (Xciever) for the flying frequencies that also includes a nice GPS!

Around 130 mhz.

Not cheap but well worth it if you need something like that.

Enjoy,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada.....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Wed, 03 Jun 1998 22:16:16 -0500
From: The Boices <boice@bigfoot.com>
To: qrp-l@Lehigh.EDU
Subject: [12344] Carlsbad/Guadelupe Pass TX repeaters?
Message-ID: <3.0.5.32.19980603221616.007a1df0@mailbox.arn.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Pardon my transgression away from QRP, but as this is the only radio group I subscribe to, I'll ask it here (and make it short):

We have to make a run from Canyon TX (near Amarillo) down through Carlsbad NM to Guadelupe Pass (east of El Paso a ways) to repair some broken wind speed sensors (aka anemometers). I was wondering if anyone on here could give me a frequency or two on either 2 meters or 440 for repeaters in either or both areas, or along the way. I'd also be interested to know if there was a store in Carlsbad (where we plan to spend tomorrow - Thursday - nite) that carries ARRL pubs; specifically a repeater directory.

I'll check back here (or better yet, email me directly) by noon or 1 Thursday afternoon (CDT) for any responses. Many thanks.....

73

mike
km5pe
Canyon TX
QRP-L 576

Date: Wed, 03 Jun 1998 23:48:38 -0400
From: Michael Maiorana <mikemo@ibm.net>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [12345] Elmer 101: Part 6, RF buffer and driver
Message-ID: <35761915.3361@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Here is part 6 elmerlings....

We will build this up in two stages. First the RF buffer, then the driver. A lot of the theory for these sections is over my head so don't be shy. Ask questions!

For the first section gather and install the following components.

R22 10k

R23 22k

R24 500 ohm trim pot

C34 .01 microfarad ceramic (103)

Q4 2N4401

Follow all the standard installation steps and check your work before proceeding!

Turn on the rig and connect your temporary key. You should see a nice RF sine wave at the base of Q5 (not installed yet). Remember that adjusting R24 will change the voltage from 0 volts to maximum. Make sure it is adjusted up. If you measured the output of the bandpass filter this reading may be a little lower. That's ok.

Just a side note. Any time you make a measurement of an electronic circuit you will effect it in some way, guaranteed. We try to minimize the effect by using the correct measuring device. Case and point, there were a few folks who had trouble adjusting T2 and T3 for a peak in the rf output. The reason for this was that the 0-scope probe was changing the characteristics of the circuit and changing resonance due to added capacitance and resistance. So, as we move forward keep in mind that the bandpass circuit is easily effected by circuit changes.

So we have this nice pretty 7MHz sine wave at the output of T3. The problem is that it is sensitive to circuit changes. So we must isolate it from the following sections. This is the job of Q4. It is configured as a common collector amplifier with voltage divider bias. The bias on the base of Q4 is set in the linear region of the transistor by R22 and R23. With a 12 volt supply this makes the DC bias on the base of Q4 3.75 volts. $V_{r2} = (12 * r2) / (r1 + r2)$

For information and an excellent explanation of bipolar transistor biasing please refer to chapter 8 page 20 of the 1998 ARRL handbook. It is a must read section!

In brief, the common collector amplifier (a.k.a. emitter follower) has some interesting characteristics. It has a gain of less than one (Hmmm), a very high input impedance and a very low output impedance. So it does not provide any voltage gain, but it does isolate the bandpass

filter and the RF driver section (next section).

If you tweaked T2 and T3 in the last section, put your probe on the hole for the base of Q5 (not installed yet). Now key up and see if you can tweak up the voltage with T2 and T3. I went through it again and was quite a bit off. This is because my scope probe changed the resonance of T3 and bumped the whole circuit a bit. My scope probe is rated at 10 meg ohms and 11.8 picofarads of capacitance.

Now while trying to peak T2 and T3 again I accidentally bumped the ground shield on my scope probe to the top part of R20 (the side not connected to V+). Can anyone guess which component I fried when I keyed up, and why? (This is homework ;-)

Ok, now on to part 2. First wind the primary of T4. Please follow the directions on page 13 of the manual. My experience was that 3" of wire was not enough for my coil. I would use 3.5" (I had to rewind mine, yuck). Install it and the secondary as per the instructions.

Gather the following components and install them:

R25 2.2k
R26 470
R27 10
R28 51
R29 51 (the books parts layout drawing has this incorrectly labeled as 100)
C114 .1 (104)
C35 .01 (103)
D6 1n4148
Q5 2n4401

Check your work before continuing, paying special attention to T4.

Put your scope probe on the base pin of Q6 (not installed yet). Key up and you should see your 7Mhz wave. Mine was distorted severely until I turned R24 down a little (I had it cranked all the way up). If you have an O-scope you will notice that the bottom half of the wave is distorted. D6 clamps the negative half of the waveform at -0.7 volts.

This part of the circuit has several things I don't understand but I'll try to explain what is obvious. The purpose of Q5 is to drive the final amplifier Q6 (not installed yet).

The final amplifier q6 is a class C amplifier, which means the active device (the transistor) conducts for less than 180 degrees of the signal. The signal is kept going by the resonant circuit in the collector. Q6 just gives it a "kick" every cycle to keep it going. More on this when we put in the final amp.

R25 and R26 set the DC voltage on the base of Q5 at about 2.1 volts. This sets the DC emitter voltage at about 1.4 volts (2.1 - 0.7 base emitter diode drop). This sets the DC emitter current at 23 milliamps ($1.4 / (51+10)$). C114 bypasses R28 at RF frequencies so the effective emitter resistance at AC is 10 ohms which changes the AC operating characteristics (and increases AC gain??). Again refer to the ARRL handbook for details.

The load for this amplifier is the primary of T4 which is in the collector circuit. The manual describes it as an 8:1 transformer. I'm guessing that this ratio provides more current drive to the base of the final Q6. One of the gurus is going to have to take us through this part (please).

Ok folks, I know this was slow in coming and I apologize. Life has been a little on the crazy side on this end. Please fire up the questions and lets really work this section out. There is lot's of bipolar transistor stuff we can learn here.

Next we start the receiver section. Can't wait to build the "ears" ;-)

To borrow a phrase "MELT SOLDER".

Regards,

--

72 de ku4qo

Mike Maiorana

Palm Harbor, FL

"Have a great day, and enjoy whatever liberty you have remaining!"

Date: Thu, 4 Jun 1998 00:01:49 -0400
From: McNelly <72507.235@compuserve.com>
To: qrp-1@Lehigh.EDU
Subject: [12346] Sierra's J310 arrived!
Message-ID: <199806040004_MC2-3F1B-68E5@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Hello All,

QRP Bob graciously sent me a J310 and after installing it in my friends Sierra the power went from 0.5w to 2.2w on the 15M module. I still think

that something else is holding back the power at higher freqs, perhaps the 2n2222A is off a bit. She has the ferrite bead on its base already. But she will be very happy as she started out with 0.2w on 15M.

The J310 perked up the the other mods (NTE342/transformer mod) as well. Power levels are:

160M - 4.4w
80M - 5.5w
40M - 6.0w
30M - 5.0w
15M - 2.2w

I have suggested that she mount a variable pot to the back panel adjust the power level easily. Varying the power level looks ok on the scope but 30M seems to develop some modulation when the power is lowered. I can't tune this out by tweaking L5/L6 or the band module trimmers.

The NTE342 using the back panel as a heat sink runs incredibly cool. My 15w dummy load was very warm after repeaking all the band modules and the final/back panel was still cool to the touch.

Thank you all for your help, and I especially thank Wilderness Radio for sending me out the J310!

72/73's,

--Rick, KE4IZH

QRP-L # 493
72507.235@compuserve.com
Chesapeake, Va.
MP2.1K

Date: Wed, 3 Jun 1998 22:52:47 -0600 (MDT)
From: Paul Harden <pharden@aoc.nrao.edu>
To: Michael Maiorana <mikemo@ibm.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [12347] Re: Elmer 101: Kudos for Michael
Message-ID: <Pine.SOL.3.91.980603223600.25856A-1000000@zia>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Elmer 101 gang,
Unfortunately, due to being heavily involved in a couple of QRP projects, I have not been able to build the Elmer 101 SW+ rig with the lessons. But I do read every one of Michaels lessons and the related posts. And I am impressed, and just publically want to thank Michael, whom I don't think I have ever met, for doing a DYNAMITE job with the lessons. A super, 100%, FB job, Michael. I can tell you put a lot of time and care preparing the lessons, they are of professional quality, and I'm sure appreciated by all. And that goes for the assistance given by all the Elmers from Dave Benson himself to the others. It is an expression of the true Elmer spirit that sadly has been missing from our hobby for a long time. And I'm proud as heck to know it is alive and well amongst most of the QRPers.

And for you participants and builders, let me assure you, you are getting world class Elmering, in a step-by-step method that I think is truly unique. While some of you may be scratching your heads over some of the circuits you've built, I guarantee you have learned far more than you realize.

Again, thanks for spearheading the project, Michael. A truly fabulous job.

72, Paul NA5N

-----NATIONAL RADIO ASTRONOMY OBSERVATORY ----- Socorro, New Mexico -----
| VLA - Very Large Array Observatory - Worlds largest radio telescope |
| VLBA - Very Long Baseline Array - even larger |
----- (pharden@zia.aoc.nrao.edu) --- (73 de NA5N) -----

Date: Thu, 4 Jun 1998 01:09:05 -0400
From: Dale Scott <dcscott@us.ibm.com>
To: <qrp-l@Lehigh.EDU>
Subject: [12348] Re: Elmer 101: Kudos for Michael
Message-ID: <5030100021325056000002L062*@MHS>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: quoted-printable

Paul I couldn't agree more. I first became a ham a little over three y=

ears ago
and came into this hobby believing what I had read about all the wonder=
ful
Elmers. I joined this list before I even had my first ticket and can n=
ot begin
to thank all the individuals and groups from here who have added to my
knowledge and enjoyment.

I finally located a group of hams in my local area who meet regularly =
and who
exhibit the same attitude toward Elmering as those on this list. But t=
hat is
to be expected - - - they are all on this list too.....

72 - dale/w7hlo

Dale C. Scott
IBM -- Engineering Technology Solutions
(206) 587-2784 8/277-2784

Internet: (work) dcscott@us.ibm.com
(home) dcscott@ibm.net

OV/VM: dcscott@ibmusm54

----- Forwarded by Dale Scott/Seattle/IBM on 06-03-98 =
10:03 PM

owner-qrp-1@Lehigh.EDU on 06-03-98 09:55:22 PM
Please respond to pharden@aoc.nrao.edu
To: qrp-1@Lehigh.EDU
cc:
Subject: Re: Elmer 101: Kudos for Michael

Elmer 101 gang,
Unfortunately, due to being heavily involved in a couple of QRP
projects, I have not been able to build the Elmer 101 SW+ rig with
the lessons. But I do read every one of Michaels lessons and the
related posts. And I am impressed, and just publically want to thank
Michael, whom I don't think I have ever met, for doing a DYNAMITE
job with the lessons. A super, 100%, FB job, Michael. I can tell
you put a lot of time and care preparing the lessons, they are of
professional quality, and I'm sure appreciated by all. And that goes
for the assistance given by all the Elmers from Dave Benson himself
to the others. It is an expression of the true Elmer spirit that
sadly has been missing from our hobby for a long time. And I'm

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Again, thanks for spearheading the project, Michael. A truly fabulous job.

72, Paul NA5N

```
-----NATIONAL RADIO ASTRONOMY OBSERVATORY ----- Socorro, New Mexico -----  
-  
| VLA - Very Large Array Observatory - Worlds largest radio telescope =  
|  
| VLBA - Very Long Baseline Array      - even larger                  =  
|  
----- (pharden@zia.aoc.nrao.edu) --- (73 de NA5N) -----  
-
```

=

Date: Wed, 03 Jun 1998 23:07:16 -0700
From: Dave Willey <dave@cds1.net>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [12349] [Fwd: Re: Foxhunt Rules Please?]
Message-ID: <35763994.63AE@cds1.net>
MIME-Version: 1.0
Content-Type: multipart/mixed; boundary="-----45BA1A73441E"

This is a multi-part message in MIME format.

-----45BA1A73441E
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ok, OK, Hasn't been THAT long since I was in Boy Scouts

doing snipe hunting on camping trips & ditching the new
guys...

Thanks for those who DID take the time to respond with
the link.

John Bohnert
Jerry Haigwood
Roger Hightower

And for Walt K8CV, I think I should hide his candy /
soda stash, or at least tie him up in his sleeping bag....

--
IF there indeed are other parallel universes... I can now rest in the
knowledge, that in at least one of them, I am filthy rich and drive
a red Ferrari

--
To send a reply please remove "NOJUNKMAIL" from the return address,
and replace "AT" with "@"

Dave Willey
e-mail: dave AT cds1.net
amateur e-mail: kd6kwm AT cds1.net
amateur packet: KD6KWM@KD6KWM.#NCA.CA.USA.NOAM

--
QRP-L #1567

-----45BA1A73441E
Content-Type: message/rfc822
Content-Transfer-Encoding: 7bit
Content-Disposition: inline

Return-Path: k8cv@juno.com
Received: from x12.boston.juno.com (x12.boston.juno.com [205.231.101.26]) by
cds.cds1.net (8.8.8/8.7.3) with ESMTP id RAA26843 for <dave@cds1.net>; Wed, 3 Jun
1998 17:28:49 -0700
From: k8cv@juno.com
Received: (from k8cv@juno.com)
by x12.boston.juno.com (queuemail) id U1M20700; Wed, 03 Jun 1998 20:28:26 EDT
To: dave@cds1.net
Date: Wed, 3 Jun 1998 17:23:16 GMT
Subject: Re: Foxhunt Rules Please?
Message-ID: <19980604.003222.12486.2.k8cv@juno.com>
References: <3574D7AC.32ED@cds1.net>
X-Mailer: Juno 1.49
X-Juno-Line-Breaks: 1-2,4-6

You go out at night and hold this bag with a qrp radio in front of it and yell

" here snipe here snipe" and wait for a qrp fox to come..... and they will!

Walt K8CV

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

-----45BA1A73441E--

Date: Thu, 4 Jun 1998 01:36:31 -0400
From: "Duane" <duane@flinet.com>
To: "qrp-l group" <QRP-L@Lehigh.EDU>
Subject: [12350] gps & flying
Message-ID: <002c01bd8f7a\$bbf946e0\$03180ed0@flinet.com.flinet.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I know this is not qrp related and seldom do I post such material.
But for those interested in the GPS and flying I have put together a new WWW
Page. <http://www.flinet.com/~duane/aviation/airplane.htm>
my ham radio page is still up just over 20,000 hits in 1 1/2 years
<http://www.flinet.com/~duane/ham/ham.html>

thanks
Duane AB4BE Qrp1# 710

Date: Thu, 04 Jun 1998 12:05:37 +0100
From: Wayne Dillon <w.dillon@ic.ac.uk>
To: gqrp-l@blacksheep.org, qrp-l@Lehigh.EDU
Subject: [12351] Has anybody got a.....
Message-ID: <1.5.4.32.19980604110537.00d42e94@mism.ad.ic.ac.uk>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Gang,

I wonder if anybody out there can help me out. I have an aged Trio TR2300 2m Fm Transceiver, in very good nick I might add, and I'm desperately looking for a matching mobile mounting bracket. Any of you guys and gals out there help me out? If you can I'd appreciate it very much.

Please e-mail me direct with any reply.

Thanks for the bandwidth,

Reagrds, Wayne - G0JJQ G-QRP-5233
"Tis better to remain silent and be thought a fool than speak up and have all doubt removed"

Wayne S. Dillon
Maintenance Co-Ordinator/Health and Safety Officer (Estates)
Imperial College of Science, Technology and medicine
Exhibition Road
London
SW7 2AZ
England.

0171 594 9030 - Telephone
0171 594 8930 - Fax.

Date: Thu, 4 Jun 1998 06:32:41 -0600
From: "Evert R. Halbach" <cs-erh@nich-nsunet.nich.edu>
To: qrp-1@Lehigh.EDU
Subject: [12352] contest scores
Message-ID: <37658BB24DA@nich-nsunet.nich.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7BIT

Greetings!

Did a little contesting this weekend. If I could have got em to "slow down" a bit, I think I could have done a lot better. Little fast for me.....

Band	QSOs	Pts.
------	------	------

160	0	0
80	0	0
40	40	158
20	131	212
15	90	150
10	2	6

total 263 526 X 197 Mult. = 103,622 points

Operated about 25 hours. Did better on PHONE contest.

Call: WA50JI

Rig: QRP+

Power: 4.8 w

Ant: 10/15/20 Quad, 40 Beam

Location: Louisiana

Comments: Had a great time. Used NA for logging and CW sending. Bands kind of sick but hit 40 mtrs. good one night. Think if stations would have slowed down a bit there would not have had to be so many repeats and delays. I know I could have made more contacts. I set up the keyer for 24 wpm and was almost the "slowest" thing in the contest. Unfortunately I can't copy >40 wpm therefore had problems. What took most time was LISTENING to the station calling a FEW times to get the callsign correct and getting the numbers correct before I called them. Once I had their info I NAILED em. Even worked a bunch of stations off the back of the beam. Well, might try Field Day.....can't give up yet..... probably CW, battery, <5 watts....

73 es Happy Contesting de WA50JI Evert

Evert R. Halbach WA50JI

E-mail - cs-erh@nich-nsunet.nich.edu

Snail (work) - P.O. Box 2168 Thibodaux, La. 70310

Snail (home) - 117 Sawmill Rd. Thibodaux, La. 70301

Date: Wed, 03 Jun 1998 22:31:19 -0700

From: ka1iic <ka1iic@ime.net>

To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [12353] re: nicad help
Message-ID: <35763127.1119@ime.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Everyone,

Does any one have the charging data for Marathon 1.25 volt Nicads?
They were manufactured for aircraft lighting the stock number is 's106'
and it is size 'cd'.

It has the diameter of a common 'c' cell but its lenght is about double
of a 'c' cell.

My wife (N1YUX) bought a large box of these at a hamfest and they sure
came in handy during the ice storm and I'd like to use them for qrp
operation out on my 'back 40'.

Any ideas?

tnx in advance.

73's
Vince
ka1iic

Date: Thu, 4 Jun 1998 06:34:16 -0400
From: "Jay Heffner" <cjayheff@erols.com>
To: <qrp-l@Lehigh.EDU>
Subject: [12354] pixie 2 kits??
Message-ID: <01bd8fa4\$53744820\$506daccf@scs-micron1.eng.usps.gov>
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----=_NextPart_000_000B_01BD8F82.CC62A820"

This is a multi-part message in MIME format.

-----=_NextPart_000_000B_01BD8F82.CC62A820
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Does anyone know what company sells pixie 2 kits? What is their www = address?

73/72,
Craig, KF4NYZ

-----=_NextPart_000_000B_01BD8F82.CC62A820

Content-Type: text/html;

charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD W3 HTML//EN">

<HTML>

<HEAD>

<META content=3Dtext/html; charset=3Diso-8859-1 =

http-equiv=3DContent-Type>

<META content=3D'"MSHTML 4.71.1712.3"' name=3DGENERATOR>

</HEAD>

<BODY bgColor=3D#ffffff>

<DIV>Does anyone know what company sells =
pixie 2=20

kits? What is their www address?</DIV>

<DIV> </DIV>

<DIV>73/72,</DIV>

<DIV>Craig, =

KF4NYZ</DIV></BODY></HTML>

-----=_NextPart_000_000B_01BD8F82.CC62A820--

Date: Thu, 4 Jun 1998 07:01:43 -0600

From: wa5whn@juno.com

To: qrp-l@Lehigh.EDU

Cc: finley@sdsc.org

Subject: [12355] N1IRZ's book

Message-ID: <19980604.070438.2694.3.wa5whn@juno.com>

qrp-lers,

We have another author in the group who now has a book out.

<http://www.sdsc.org/~finley/>

For those of you who want to improve your code speed. Read Dave's book from no code Tech to Extra.

I think N1IRZ {finley@sdcc.org} will be @ Ft. Tuthill {Flagstaff} Hamfest. You can check out the dates for the Ft. Tuthill Hamfest at the now famous KI7MN URL;

<http://www.dancris.com/~ki7mn/>

and all I had wanted to be was a "quantum
mechanic".... ;-)

72,...Jay,

WA5WHN DM65qd Albuquerque, NM USA

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 04 Jun 1998 20:29:28 +0800
From: "Daniel Wee, 9V1ZV" <daniel@pandora.lugs.org.sg>
To: qrp@pandora.lugs.org.sg
Subject: [12356] Weird Panasonic NiCd
Message-ID: <35769328.pandora@pandora.lugs.org.sg>

Hi Guys,

With all the talk about NiCd batteries, I have a weird experience.

I recently bought a digital camera which came with 3 Panasonic AA 1000mAh NiCd cells. It works fine. However, the camera refuses to charge any other brands of NiCds except the Panasonic brand.

Now, I ask myself, how does a charger determine what brand of battery I've got in there? Any clues?

73 de 9V1ZV Daniel

obQRP: Camera is used to take shots of my QRP projects :-)

--

```
+-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg |
| 9V1ZV      | http://www.cyberway.com.sg/~danwee |
| QRP-L #667 | 9V1ZV@amsat.org |
+-----+-----+
```

Date: Thu, 04 Jun 1998 09:24:35 -0400
From: Scott Howell <whowell@hq.nasa.gov>
To: qrp-l@Lehigh.EDU
Subject: [12357] band modules for Sierra
Message-ID: <3.0.5.32.19980604092435.007cf390@mail.hq.nasa.gov>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I am looking for fully assembled band modules for 10, 15, and maybe 17 meters. I can't build the kits without melting all the parts <grin>. Well lets say they are worth to much to destroy at my hands.
So, if you have any of these, please let me know via E-mail what your asking price is.tnx

72

NASA Headquarters
Human Resources Management Division
Employee Benefits Officer
CP/Scott Howell
300 E Street SW
Washington DC, 20546

phone/fax: (202) 358-1558
E-mail: Whowell@hq.nasa.gov

Date: Thu, 04 Jun 1998 08:36:30 -0500
From: Chuck Carpenter <w5usj@webwide.net>
To: qrp-l@Lehigh.EDU
Subject: [12358] Mystery Toroid?
Message-ID: <3.0.1.32.19980604083630.00698e64@mail.webwide.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have some toroids gotten from somewhere a long time ago.

There are no color markings, appear to be powdered iron, and are about 3/4 ID, 1 1/8 OD and 1/4 thick. How can I find out if they would be useful for QRP level HF baluns or ununs?

I'm limited to my xcvr for a signal generator, a dip meter, power/SWR meters, and a couple of DVMS to use as test equipment.

72/73 -- Chuck, W5USJ, EM22cv

Date: Thu, 04 Jun 1998 09:39:40 -0400
From: Michael Maiorana <mikemo@ibm.net>
To: daniel@pandora.lugs.org.sg
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [12359] Re: Weird Panasonic NiCd
Message-ID: <3576A39C.4133@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Daniel Wee, 9V1ZV wrote:

> I recently bought a digital camera which came with 3 Panasonic AA
> 1000mAh NiCd cells. It works fine. However, the camera refuses to charge any
> other brands of NiCds except the Panasonic brand.
>
> Now, I ask myself, how does a charger determine what brand of battery
> I've got in there? Any clues?

I'll betcha that the panasonic nicads have 5mm or so of the outer insulation removed at the negative end of the battery. So, when you put in the panasonic nicads there is a little wire contact that touches there. If it sees ground it charges, if not it doesn't. This way if you put in regular old alkaline batteries it will not attempt to charge them (boom!).

You should be able to cut away about 5mm of the insulation exposing the side of the battery (just copy the panasonic batteries) and be good to go.

--
72 de ku4qo
Mike Maiorana

Palm Harbor, FL

"Have a great day, and enjoy whatever liberty you have remaining!"

Date: Thu, 4 Jun 1998 09:21:46 -0600
From: "James R. Duffey" <ji3m@maxwell.com>
To: we6w@qsl.net
Cc: qrp-1@Lehigh.EDU
Subject: [12360] Single Knob Antenna Tuner
Message-ID: <v03007802b19c6a39153e@[192.31.66.158]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Ed - You ask;

"Last month I mentioned the 1979 ARRL Hdbk and a tuner with twin loops on a common shaft -- Your Variocoupler. In fact, this single-band Antenna tuner is on the front cover! Anybody seen it?"

I have seen it, but I think that the correct reference is 1978 ARRL Handbook. My 1979 Handbook does not have it inside, or on the cover. The 1978 I checked at the Library did have it though.

People looking for the single shaft tuner can look for it in the 1978 Handbook. I think it is also in earlier versions.

The tuner is clever, but limited in application to a single band, and probably to relatively high impedance antennas. I think a single knob tuner for multiple bands, and a wider variance in loads could be designed pretty easily though. I just need to find some variable capacitors that rotate 360 degrees with no stops. - Dr. Megacycle KK6MC/5

James R. Duffey <ji3m@maxwell.com> (505) 764-3143
Maxwell Technologies Inc. <http://www.maxwell.com/>
2501 Yale Blvd SE Suite 300
Albuquerque, NM 87106-4200

Date: Thu, 04 Jun 1998 11:46:21 -0400
From: jim <kw3u@warwick.net>

To: qrp-1@Lehigh.EDU
Subject: [12361] Icom-725 for sale
Message-ID: <3576C14D.405B@warwick.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gang,

I am parting with the following rigs due to new Ft-920 arrival.

Icom 725 HF 160-10, 4watts-100w variable, comes with manual, pwr cord, handmic. It works great and has mars mod. asking 500 shipped.

Radioshack HTX100 10 mtr rig, works great also, but no mounting bracket or manual. cw/ssb only has two power levels 5/25 watt i believe. asking \$120 shipped.

They can be seen at Hamfest in teaneck NJ this saturday also. tnx es 72 Jim kw3u

Date: Thu, 04 Jun 1998 15:52:54 +0000
From: Ed Loranger <we6w@qsl.net>
To: ji3m@maxwell.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [12362] Re: Single Knob Antenna Tuner
Message-ID: <3576C2D6.7B66@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

You are right. I don't even have a 1979 ARRL Hdbk. :)
It is in my 1977 Hdbk...

Thanks for clarifying, Dr. Megacycle :) :) --Ed

--
72, Ed, WE6W/qrp CW ONLY; Proud Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (Enjoying Ham Radio every day.)

Date: Thu, 04 Jun 1998 08:56:34 -0700
From: Pierre Constantineau <pierre@cmpe.ubc.ca>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [12363] Canadian RS Freq. meter sale
Message-ID: <3576C3B2.95BA433C@cmpe.ubc.ca>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi everyone,

RS in Canada is having a sale of their frequency meters.
It is the one going from 0-1.3Ghz

0-10 Mhz TTL 5V max
1-50 to 1.3 ghz 1.4Vpp max
50 ohms input and HiZ input
Timebase is a 4mhz crystal.

Model 22-306 99.99\$.. usually 144.99
Extended warranty for above is also on sale from 29.99 to 19.99
Usual warranty is 3 months. the extended one 3 years... No questions asked.

No connection... Just satisfied with mine...

--

```

                                     /' ^ '\
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Pierre Constantineau B.Eng          Email: pierre@cmpe.ubc.ca
M. Applied Sciences Candidate       Phone: (604) 822-2913
Flash Smelting Group               Fax:   (604) 822-4750
Centre For Metallurgical           111-2355 East Mall
Process Engineering                Vancouver, BC, Canada
U. of British Columbia .ooo0       V6T 1Z4
http://noname.cmpe.ubc.ca ( _ )    0ooo.  Amateur Radio: VE7JPC
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          ( _ /

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Date: Thu, 4 Jun 1998 08:54:25 -0700
From: k6hcj@juno.com (Marv Fagenson)
To: qrp-1@Lehigh.EDU
Subject: [12364] Argonaut II model 835
Message-ID: <19980604.085431.11430.0.k6hcj@juno.com>

I'm posting for K6VIV. Argo II was sold immediately. Upon his return home, K6VIV was blessed with a dozen phone calls from all call areas of the USA. The rig was sold to a fellow qrp enthusiast from Riverside, CA who drove abt 60 miles in rush hour traffic!!

This list is very, very powerful. The transaction was made within 2 hours of posting yesterday.

Tnx

Marv Fagenson

Amateur Radio K6HCJ

k6hcj@Juno.com

Van Nuys, CA

You don't need to buy Internet access to use free Internet e-mail.

Get completely free e-mail from Juno at <http://www.juno.com>

Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 04 Jun 1998 12:09:31 -0400

From: "Hugo W. Catta" <hugo@banet.net>

To: w5usj@webwide.net

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [12365] Re: Mystery Toroid?

Message-ID: <3576C6BB.56B552D2@banet.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Hi, Chuck:

If the core is not painted, is probably ferrite.

I would try to wind 10 two wire turns (22 to 16ga) and apply a few watts into dummy load with this (very short leads) "rf choke" in series. Check the SWR from 160 to 10 mts. if the SWR is high on 10, try to remove one or two turns, and check again. If it is still high in 160 or 80 may be ferrite with a permeability too high and probably won't work in HF.

The reason is that for higher bands, the core material is "transparent", not so to lower frequencies.

This is the way I found a material suitable for my "balun at the input" type of tuner I built for my QRP rigs inspired in Zack Lau's 1990 ARRL handbook tuner.

72, 73

Hugo

CX9AAK/W2

Chuck Carpenter wrote:

> I have some toroids gotten from somewhere a long time ago.

>

> There are no color markings, appear to be powdered iron, and are about 3/4
> ID, 1 1/8 OD and 1/4 thick. How can I find out if they would be useful for
> QRP level HF baluns or ununs?
>
> I'm limited to my xcvr for a signal generator, a dip meter, power/SWR
> meters, and a couple of DVMS to use as test equipment.
>
> 72/73 -- Chuck, W5USJ, EM22cv

Date: Thu, 04 Jun 1998 12:21:36 -0400
From: jim nestor <nestoji@home.com>
To: qrp-l@Lehigh.EDU
Subject: [12366] Wanted 2m multi-mode
Message-ID: <19980604162624.AAA18035@cc652944-a.ewndsr1.nj.home.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Have got the itch to get back on 2m SSB/CW for camping season. However, the
itch can only be scratched at a reasonable price tag and in a compact package.

So, am looking for a nice FT-290, FT-408, TS-721 in the general vicinity of
\$3-350. Anybody got one, send me private e-mail. Thanks,

Jim, WK8G
nestoji@home.com

Date: Thu, 04 Jun 1998 09:38:34 -0700
From: Pierre Constantineau <pierre@cmpe.ubc.ca>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [12367] Frequency meter input protection
Message-ID: <3576CD8A.FBECE26A@cmpe.ubc.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi everyone,

I just bought a frequency meter. Its input limits are 1.4Vpp max.

To protect its input, should I use two diodes to clamp the input.

What about the TTL input? A 5.1V or 4.7V Zener diode?

Will it affect my measurement.

Of course... do not plug the thing directly in the transmitter...

Thanks for the help

--

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-----o000--( )--000o-----
Pierre Constantineau B.Eng      Email: pierre@cmpe.ubc.ca
M. Applied Sciences Candidate   Phone: (604) 822-2913
Flash Smelting Group           Fax:   (604) 822-4750
Centre For Metallurgical       111-2355 East Mall
Process Engineering            Vancouver, BC, Canada
U. of British Columbia .ooo0   V6T 1Z4
http://noname.cmpe.ubc.ca ( )   0ooo.  Amateur Radio: VE7JPC
-----\ (---( )-----
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      (_/

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Date: Thu, 04 Jun 1998 16:48:37 +0000
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [12368] Re: Coupling your TX to your ANTENNA.
Message-ID: <3576CFE5.57B1@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

FOLKS! I multiplied where I should have divided!!!

The procedure I shared yesterday should use a
4 to 5 inch long PVC pipe for the primary (1 inch diameter)
and a 8 to 9 inch long PVC pipe, 4 inch diameter, for the
secondary.

It's 2 turns per inch, not 1 turn every 2 inches.....

Best to all.

-Ed

--

72, Ed, WE6W/qrp CW ONLY; Proud Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (Enjoying Ham Radio every day.)

Date: Thu, 04 Jun 1998 17:04:06 +0000
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [12369] Re: Coupling your TX to your ANTENNA.
Message-ID: <3576D386.3700@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ok. I've added the experimental procedure to my web page.

It is a text document and I've corrected the pvc pipe lengths.

Sorry for the bandwidth.

Here's the link:

<http://www.qsl.net/we6w/ant0.html>

Or Directly If you use Juno and a web page mailer:

http://www.qsl.net/we6w/projects/Ant_coupler.txt

Tested link works.

-Ed

--

72, Ed, WE6W/qrp CW ONLY; Proud Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (Enjoying Ham Radio every day.)

Date: Thu, 4 Jun 1998 13:16:53 -0400 (EDT)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: Marv Fagenson <k6hcyj@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [12370] Re: Argonaut II model 835

Message-ID: <Pine.OSF.3.95.980604131416.21076A-100000@saturn.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 4 Jun 1998, Marv Fagenson wrote:

> I'm posting for K6VIV. Argo II was sold immediately. Upon his return

<snip> *** I'm crushed...

> This list is very, very powerful. The transaction was made within 2
> hours of posting yesterday.

No doubt... except it wasn't the list, it was the price :-). Any idea why
he was selling a rig that typically goes for \$800+ for only \$500?

73! =paul= W8KC
Collector of Ten*Tecs and other fine plastics

<<http://www.acs.oakland.edu/~prvalko>>

Date: Thu, 04 Jun 1998 10:44:11 -0700
From: Jerry Parker <jparker@fix.net>
To: qrp-1@Lehigh.EDU
Subject: [12371] Small Wonder Labs New Frequency Counter
Message-ID: <2.2.32.19980604174411.00767bd0@fix.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Dave Bensons NEW 'Freq-Mite' Frequency Counter is posted to
his website complete with a picture and information!

This is a neat item, check it out at:

<http://www.fix.net/~jparker/sml.html>

Enjoy,,,72,,,Jerry...WA6OWR...K

Date: Thu, 4 Jun 1998 12:33:03 -0500
From: ac5ez@webtv.net (Larry B)
To: qrp-1@Lehigh.EDU
Subject: [12372] radio shack books
Message-ID: <199806041733.KAA00880@mailtod-121.bryant.webtv.net>
Content-Type: TEXT/PLAIN; CHARSET=US-ASCII
Content-Transfer-Encoding: 7BIT
MIME-Version: 1.0 (WebTV)

Just bought :
General radio telephone 62-2420 for \$1.97
Advanced class 62-2422 for 07 cents
repeater atlas 62 2423 for 0.97 cents
Advanced class Fcc Prep 62 2415 for .07 cents
from radio shack in Mesquite (Dallas suburb)
FYI
Larry Ac5ez

Date: Thu, 4 Jun 1998 12:00:09 -0600
From: "James R. Duffey" <ji3m@maxwell.com>
To: wa5whn@juno.com
Cc: qrp-1@Lehigh.EDU
Subject: [12373] N1IRZ's Book and Bob's School of Quantum Mechanics
Message-ID: <v03007807b19c8c491642@[192.31.66.158]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Jay - Loved your post.

My wife got the press release about Dave's Book at her work, Page One, and ordered several copies after asking me if it was "worth it". So if you want a copy stop by Page One. For the rest of you on the list, they also sell by phone. A wonderful large, independent bookstore. Stop by when you are in Albuquerque.

(This is, of course, blatant self promotion as my wife works there. - You may be better off buying a copy from your friendly local Ham dealer and supporting him/her. They are nearly as endangered a breed as independent bookstores)

"and all I had wanted to be was a "quantum mechanic".... ;-)"

Ah - a closet National Lampoon Fan. I still recall the pseudo matchbook cover ad they ran 20+ years ago. If my memory serves me right it ran something like this;

"Be a Quantum mechanic! Quantum mechanics earn big bucks! Be the envy of your friends! Quantum Mechanics enjoy the company of beautiful women, drive a new car every year, and eat steak for dinner every night!

"Enroll in Bob's School of Qunatum Mechanics, Somewhere, North Dakota. Learn how to be a Quantum mechanic in your spare time! Return coupon below for free information on how you too can start an exciting, enriching, new career as a Quantum mechanic."

This was posted up on the walls of every Physics Lab in the country 20 years or so ago.

No one ever accused the National Lampoon of being politically correct.

KK6MC/5 - Dr. Megacycle, Professor Emeritus, Cat Department, Bob's School of Quantum Mechanics

James R. Duffey <ji3m@maxwell.com> (505) 764-3143
Maxwell Technologies Inc. <http://www.maxwell.com/>
2501 Yale Blvd SE Suite 300
Albuquerque, NM 87106-4200

Date: Thu, 04 Jun 98 14:10:03 -0400
From: w4pj@w4bkk.ampr.org (Scott)
To: qrp-l@Lehigh.EDU
Subject: [12374] My mystery torroid (experience)
Message-ID: <1068@w4bkk.ampr.org>

I needed a 2:1 transformer to match 50 ohm coax to a 75 meter delta-loop. I had a pair (taped together with fiberglass tape) of torroids from an unknown source I wanted to use for this purpose. I needed it to handle at least 100 watts (barefoot solid state rig). I initially wound 5 turns of #14 ga. wire on the torroid(s). I used my solid state HF transciever (Ten-Tec 540) as a signal generator and connected the "unknown" inductor in parallel (using a "t" connector) with a 50 ohm (dummy) load. I checked the SWR and it was a bit high, (over 3:1 if I remember correctly). I added turns till the SWR stayed flat when the inductor was switched in parallel with the load. I assumed then that I had enough inductance

to work at that frequency (3.795 MHz). I ended up with 9 turns of #14 ga. as my primary. Using the formula: Primary to secondary turns ratio equals the square root of the Primary to Secondary Impedance ratio. Or for a 2:1 impedance ratio, the square root of 2 = 1.414 (or 13 turns secondary for 9 turns primary - pretty close) I removed the 9 turns and wound the secondary first, then wound the primary over that. Worked beautifully! Ya-know, that ARRL Handbook comes in handy!

Actually the formula looks something like this in my 1985 ARRL HANDBOOK.

$$\frac{N_p}{N_s} = \sqrt{\frac{Z_p}{Z_s}}$$

Where N_p / N_s = required turns ratio, primary to secondary
 Z_p = primary impedance required
 Z_s = impedance of load connected to secondary

 de Scott / W4PJ
 ----- 73 -----

 Date: Thu, 04 Jun 1998 18:22:08 +0000
 From: "Brian K. Short" <bshort@speedchoice.com>
 To: qrp-l@Lehigh.EDU
 Subject: [12375] Re: band modules for Sierra
 Message-ID: <199806041819.LAA22728@mail.phoenix.speedchoice.com>
 Mime-Version: 1.0
 Content-Type: text/plain; charset="us-ascii"

I am looking for a 17m module and/or the 26Mhz crystal.

Where would one purchase the crystal(s) only?

>I am looking for fully assembled band modules for 10, 15, and maybe 17
 >meters. I can't build the kits without melting all the parts <grin>. Well
 >lets say they are worth to much to destroy at my hands.
 >So, if you have any of these, please let me know via E-mail what your

>asking price is.tnx
>
>72
>
>NASA Headquarters
>Human Resources Management Division
>Employee Benefits Officer
>CP/Scott Howell
>300 E Street SW
>Washington DC, 20546
>
>phone/fax: (202) 358-1558
>E-mail: Whowell@hq.nasa.gov
>
--
"Nostalgia is a thing of the past."
--
Brian Short k7on@qsl.net <http://www.qsl.net/k7on>
(602)839-3484 1994 E Laguna Dr Tempe, Az 85282
--

Date: 04 Jun 1998 14:31:33 -0400
From: Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>
To: qrp-l;;
Subject: [12376] Ferrites torn from Televisions for ham use?
Message-ID: <1998Jun04.143133-0400@[130.113.234.7]>

Just looked thru an old Philips "soft ferrite" handbook
to see what sorta ferrites are used in TV flyback.
It occurred that there's another source of ferrite in a
TV - that's in the deflection yoke. Same sorta material.

Looks like the ferrite-of-choice is something like a
3C8 material. Permeability of about 4000. Also used
in DC switching supplies too.

Also saw some 3C2 materials used for the same
purpose (permeability of 900).

I know there's some ferrite gurus listening.
It'd be interesting to hear opinions on the
appropriateness of using these ferrites for HF use.
(sorry - don't know the cross-ref between Philips
and Micrometals products).

My best guess is that they'd work OK, (3C8) for the lower ham bands and 3C2 for all HF ham bands in applications of chokes, baluns and wideband transformers. No good for tuned circuits.

The ultimate test is - do they heat up?? Use that QRO rig laying about to test 'em. DON'T do a microwave oven test on 'em! (they're not edible, not even heated) ; -)

Date: Thu, 4 Jun 1998 11:53:28 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [12377] Re: Ferrites torn from Televisions for ham use?
Message-ID: <Pine.BSI.3.96.980604114746.2720B-1000000@usr05.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On 4 Jun 1998, Glen Leinweber wrote:

> Just looked thru an old Philips "soft ferrite" handbook
> to see what sorta ferrites are used in TV flyback.
> It occurred that there's another source of ferrite in a
> TV - that's in the deflection yoke. Same sorta material.
>
> Looks like the ferrite-of-choice is something like a
> 3C8 material. Permeability of about 4000. Also used
> in DC switching supplies too.
>
> I know there's some ferrite gurus listening.
> It'd be interesting to hear opinions on the
> appropriateness of using these ferrites for HF use.
>

The only Philips material that is suitable for HF use is 4C6, and it is pretty much limited to pot cores for high-frequency coils and transformers.

3F3 can be used at the lower HF frequencies, and when used in a transductor it can be taken beyond 30MHz if the bias flux is sufficient to cause the core losses to diminish.

Most of the ferrite materials you're finding in the TV sets is limited to 1MHz and below, their primary application being flyback

transformers and deflection yokes, as you've found, which operate at much less than 1MHz, as well as switching supply transformers and transducers.

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Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Thu, 04 Jun 1998 15:02:29 -0400
From: Ed Tanton <n4xy@att.net>
To: boatanchors@theporch.com
Cc: QRP-L Reflector <qrp-l@Lehigh.EDU>
Subject: [12378] LCDs in older rigs/etc.
Message-ID: <3.0.5.32.19980604150229.00c16600@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I just dropped Dave Benson a line on this subject, and got to wondering if perhaps others might want to talk about it a bit. The subject: the deterioration of LCDs over time.

I own one of the original Fluke 8020-A's. (There were NO 8020s that I know about.) I bought mine from Anchrone (remember them) in Atlanta practically as soon as they came out. (I read a review in Pop. Electronics [remember them?] and was instantly hooked.)

Well... several years ago the LCD display finally went. I dropped over to the local Fluke sales office to see about a replacement, and was EXTREMELY fortunate that-when I asked about buying one-the front desk secretary said: you can buy one if you like, but I just happen to have here a sample of that very display kit one of the salesmen dropped off-and she gave it to me! Very nice.

Point is: I like LEDs myself. They're colorful and they will last 5000-10000 hours to half bright. (LEDs work by emitting photons from what amounts to a flat plate. looking into an LED you'll see two things: from one lead, a straight-more or less-post upwards; and a curved or crooked leg bent over to the straight leg. At their juncture is the emissive area. If you take whatever area that area has, and express it as if it was divided into tiny cells, half the cells will not be emitting after that half-life time-typically 10,000 hours at the rated current. Meaning, it isn't nearly as bright, but it ain't dead yet either.

Now, 10,000 operating, emitting hours is a LOT of time. Another 10,000 hours and whatever that half was will be halved again-but still emitting. Somewhere along the line, it's pretty dim. The point is that it's generally a long time under normal operation.

LCDs: different ballgame. They're basically a chemical 'paste' with electrodes etched onto the glass. The life of the LCD utterly depends on the purity and hence the stability of the 'stuff'. My Fluke lasted about 20 years... that's pretty good-I expect. But very finite-and it cannot be conserved... meaning you cannot simply operate it on weekends. I BELIEVE LCDs are lasting a LOT longer than the early ones. If that is so, maybe 20 actual years is not even close. I don't know. But the bottom line, is that as our boat anchors (yes, I PERSONALLY consider there to be "boat anchor" receivers with LCDs: my RACAL RA6790/GM is pretty modern-yet hardly state of the art) and QRP rigs age, we can expect to see longterm display failures, and it might behoove us all to think about our alternatives. As for myself, I will rprobably try and get hold of one (set-actually there are 2) of the LCDs for the RACAL, vacuum seal it (or nitrogen fill-or both: one within the other) and put it in a back corner of my 'fridge (NOT the freezer!!!) I really like that rcvr, and would like to have it for a long time to come.

Even though they DO use more current, it would be nice to have an LED option on either some of the rigs coming out, or at least on some of the programmable displays.

73

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

EMAIL: n4xy@att.net
TEL: (770)579-3933 V/MBX/FAX

INTERESTS: QRP BoatAnchors Test Equipment Photography
CW: 99.9% Mercury Paddle # 0214 QRP to 150W: 95%

~~~~~  
"Think you can, think you can't: either way you're right!" Henry Ford  
~~~~~

Date: Thu, 04 Jun 1998 14:28:22 -0500
From: plundy@max.state.ia.us (Paul Lundy)
To: ac5ez@webtv.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [12379] Re: radio shack books
Message-ID: <3576F555.F68AF8EB@max.state.ia.us>
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----9D88B31ACBA379D5530C1E87"

-----9D88B31ACBA379D5530C1E87
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Are these current license manuals? It would seem to me to be obsolete.
ARRL had some which were good through July 1, 1997 (guaranteed) and were
then going to publish some revised ones for the new tests. Just thought
I'd ask. 72/73 Paul K0LKH

Larry B wrote:

> Just bought :
> General radio telephone 62-2420 for \$1.97
> Advanced class 62-2422 for 07 cents
> repeater atlas 62 2423 for 0.97 cents
> Advanced class Fcc Prep 62 2415 for .07 cents
> from radio shack in Mesquite (Dallas suburb)
> FYI
> Larry Ac5ez

-----9D88B31ACBA379D5530C1E87
Content-Type: text/html; charset=us-ascii
Content-Transfer-Encoding: 7bit

<HTML>

Are these current license manuals? It would seem to me to be obsolete. ARRL had some which were good through July 1, 1997 (guaranteed) and were then going to publish some revised ones for the new tests. Just thought I'd ask. 72/73 Paul K0LKH

<P>Larry B wrote:

<BLOCKQUOTE TYPE=CITE>Just bought :

General radio telephone 62-2420 for \$1.97

Advanced

[illegible]

62-2422 for 07 cents

```
<BR>repeater
```

atlas; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
; ; ;

62 2423 for 0.97 cents

Advanced class Fcc Prep 62 2415 for .07 cents

 from radio shack in Mesquite (Dallas suburb)

FYI

Larry Ac5ez</BLOCKQUOTE>

-----9D88B31ACBA379D5530C1E87--

Date: Thu, 4 Jun 1998 15:24:41 EDT

From: SABorns@aol.com

To: qrp-1@Lehigh.EDU

Subject: [12380] CQrp Meeting

Message-ID: <73f59810.3576f47a@aol.com>

Mime-Version: 1.0

Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7bit

The June meeting of CQrp will take place this coming Saturday morning at Universal Radio in Reynoldsburg at 1030hrs. It's time to make Field Day plans.

73, Steve K8IDN

Date: Thu, 4 Jun 1998 12:38:49 -0700 (PDT)

From: Richard Fisher <nu6sn@yahoo.com>

To: qrp-1@Lehigh.EDU

Cc: nu6sn@aol.com, nu6sn@yahoo.com
Subject: [12381] NOW SHOWING: The ARS Sojourner, June '98
Message-ID: <19980604193849.16537.rocketmail@send1b.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

The second edition of the Adventure Radio Society's montly web magazine The ARS Sojourner has been put to bed at its west coast editorial offices, and you're invited to grab a free copy at a news stand -- make that WEB SITE -- near you.

Some of the features in the June issue include:

-- The Field Friendly Doublet, an ultra-lightweight and inexpensive multiband HF antenna system designed specifically for field operation by technical editor Charlie Lofgren, W6JJZ. Words, photographs and drawings give details on putting the FFD together for your trail excursions. If you build it, the contacts will come.

-- Just in time for Field Day, try your hand at building the HyLaunch, an antenna launching device for getting wires to heights where no man dare go. A story, pictures and graphics by technical editor Bill Jones, KD7S, tell everything you'll need to know to "roll your own."

-- Remember the recent "QRP To The Field?" We've got adventure stories from Allan Taylor, K7GT, and contributing editor Cam Hartford, N6GA. Was it "Happy Trails" to them?

-- ALSO: Your letters to the editor, results and soapbox comments from Monday's June Spartan Sprint, a calendar of upcoming operating events, and much more.

The ARS Sojourner is a free monthly publication of the Adventure Radio Society. To get your copy, simply visit the ARS home page:
<http://www.natworld.com/ars>

As always, we value and appreciate your comments, suggestions and criticisms. We also welcome your stories, photographs and graphics.

On behalf of web master Russ Carpenter, AA7QU, and the whole staff, here's hoping you enjoy this edition of The ARS Sojourner. Let us know what you think of it.

Vy 72,

Richard Fisher, nu6SN

Executive editor, The ARS Sojourner
nu6SN@aol.com

DO YOU YAHOO!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Thu, 4 Jun 1998 13:13:36 -0700 (PDT)
From: David J Adams <adamsclan@netgate.net>
To: ji3m@maxwell.com, qrp-1@Lehigh.EDU
Subject: [12382] Re: N1IRZ's Book and Bob's School of Quantum Mechanics
Message-ID: <199806042013.NAA07846@u1.netgate.net>

Date: Thu, 04 Jun 1998 20:17:55 +0000
From: Ed Loranger <we6w@qsl.net>
To: n4xy@att.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [12383] Re: LCDs in older rigs/etc.
Message-ID: <357700F3.8DA@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

ED- I feel the same way you do about LCD's.

When I got the RAC Frequency counter I was EXTREMELY
pleased that it uses LED displays. Last forever in
my book!

And You don't have to be +/- two degrees Normal to
the plane to see the things.

-Ed
--

72, Ed, WE6W/qrp CW ONLY; Proud Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (Enjoying Ham Radio every day.)

Date: Thu, 04 Jun 1998 14:27:53 -0600
From: "Rattray, Bruce" <Rattray@siast.sk.ca>
To: "'QRP-L'" <qrp-l@Lehigh.EDU>
Subject: [12384] picture this
Message-ID: <ABB04875E11AD01191A40000F83092BE8325F7@STONE>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7BIT

...picture this...a small stage complete with full size podium...spot lights

busily finding their targets...

... Mike, K1MG, standing at the podium with several sleeping judges sitting
at
tables on both sides of him...Mike is saying.....

"....congratulations again Ed and Bob!....well done!....."
....thunderous applause mixed with ear piercing whistles !....

"...and now the Grand Prize of Foxhunt Fireside Literature goes to.....
fumble,fumble,tear,rip,gouge,fumble,piecesflying...goes to...
...Bruce Rattray, VE5RC, for The Foxhunt Chronicles!....."
...from the far back reaches of the slightly darkened hall, a single figure
jumps up from his seat as if launched from Cape Canaveral....
"....YAH000!...I won!....I can't believe it!.....I've actually won
something!!"

...the figure now roars down the aisle, gaining speed and hurtles towards
the
steps leading to the stage...people seated on the aisles look up in
wonderment
as their ears scream with the 150db doppler effect...now reaching upper
velocity as the booster thrusters fall off....the speed defies time and
vision...
...someone in the crowd yells out just as Bruce nears the steps....

"...Way to go Bruce ya 'ol Labrador Hound!!...."

...Bruce's head turns forty-five degrees....neck cracking, his laser-like
smile
beaming...the scene turns to slow motion....Bruce's right foot catches in
the

carpet...it's sheer ballet in motion as he takes flight.....up,up,up and smiling
all the way....CRASH,SMASH,CRUNCH,MUNCH.....right into the stage steps.....the flight is over...gravity wins once again...

...the hollow sound of Bonnie's voice slowly breaks through to Bruce's consciousness....
"....you're going to be all right honey....we're at our hospital...you broke

your ankle in two places when you hit the steps but it's a clean break.....the
pain you're feeling right now is from the torn ligaments in your knee....they'll
heal ok hon...it'll just take time...look at this!..."
....as Bonnie held the Grand Prize Certificate up, tears overflowed as Bruce

struggled to speak.....<sniff>...
"....your pain must be bad honey....."

"...no hon...it's just that I never imagined even in my wildest fantasy that QRP would take me to such heights!
....how can I really thank Mike and the other judges?....."
"...I think you already have honey...they're still asleep..."

...thank you all from the most-humbled of Scribes.

Date: Thu, 04 Jun 1998 16:27:00 EDT
From: fcsww@juno.com (dick rood)
To: qrp-l@Lehigh.EDU
Subject: [12385] 10 meters report
Message-ID: <19980604.162644.4839.0.fcsww@juno.com>

K9KXP/BCN is 579 here in southern NJ ... qrg 28.290 mhz 2024utc June 4th
dick, W2SCF
Fcsww@Juno.com

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Content-Type: multipart/alternative;
boundary="-----_NextPart_000_0008_01BD8FC8.3E390F80"

This is a multi-part message in MIME format.

-----=_NextPart_000_0008_01BD8FC8.3E390F80
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

MFJ9020 QRP 20m transceiver. Works great, clean, no scratches, used =
very little. Has MFJ 726 audio filter option. Only mod is increased =
audio output amp. Rx is superheterodyne with 4 crystal if filter. =
Includes manual.
List with filter is \$219.90 (199.90 AES sale price). =20
Sell for \$132 plus shipping.

Call Ed, K5ED, at 915-595-6739 or email to k5ed@dzn.com.

-----=_NextPart_000_0008_01BD8FC8.3E390F80
Content-Type: text/html;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD W3 HTML//EN">
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http-equiv=3DContent-Type>
<META content=3D'"MSHTML 4.71.2016.0"' name=3DGENERATOR>
</HEAD>
<BODY bgColor=3D#ffffff>
<DIV>MFJ9020 QRP 20m transceiver. =
Works great,=20
clean, no scratches, used very little. Has MFJ 726 audio filter=20
option. Only mod is increased audio output amp. Rx is =
superheterodyne with=20
4 crystal if filter. Includes manual.</DIV>
<DIV>List with filter is \$219.90 (199.90 =
AES sale=20
price).
Sell for \$132 plus shipping. </DIV>
<DIV>
Call Ed, K5ED, at 915-595-6739 =
or email to=20
<A=20
href=3D"mailto:k5ed@dzn.com">k5ed@dzn.com.
 </DIV></BO=

DY></HTML>

-----=_NextPart_000_0008_01BD8FC8.3E390F80--

Date: Thu, 04 Jun 1998 17:50:14 -0400 (EDT)
From: n4js@pobox.com
To: qrp-l@Lehigh.EDU
Subject: [12388] HTX-100
Message-ID: <XFMail.980604175014.n4js@pobox.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 8bit
MIME-Version: 1.0

Just acquired a NOS HTX-100. Been listening on 10 all day. Heard a couple stations in FL on SSB, but nada on CW. Even called CQ QRPL a few times around 28.060. Oh well, seems like a nice little rig. About 4 watts on Low power, just right for QRP.

Patiently waiting for an opening....

Sent at 17:50:14 on 04-Jun-98

John L. Sielke	n4js@pobox.com
\ _ / _	n4js@qsl.net NJ Grid:FM29LN
. ' _ _ \ _ _ \	http://www.qsl.net/n4js NJ-QRP #57 QRP-L #884
_ \ _ _ \ _ _ / _ _ /	QRP-ARCI CQC #443 CQrp #50 AKQrp ARQrp
NE-QRP #507 G-QRP #9544	NorCal #1989 QCWA FISTS #2781 ARS #243

Date: Thu, 04 Jun 1998 18:07:41 -0400
From: jim nestor <nestoji@home.com>
To: qrp-l@Lehigh.EDU
Subject: [12389] 2m multimode versus transverters
Message-ID: <19980604221225.AAA22334@cc652944-a.ewndsr1.nj.home.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I posted a querie to see if anybody on the list has a 2m multimode, e.g. FT-290, for sale.

A number have suggested that I use a transverter and a 10m rig, and I appreciate your responses. Actually, I used to do just that using an Icom

735 and Microwave Modules xverters for 2m and 70cm. Worked just fine for a base station but pretty cumbersome for camping, and out of the question for taking on business trips. So, eventually I sold the xverters.

One of my goals is to have a separate rig to use when camping along with the HF and 6m capabilities of the DX-70 that lives in the Blazer.

The other interest is having a very small 2m multimode to take to Europe on business trips to use the 2m repeaters and also to take a listen to at the considerable 2m SSB and even CW activities which Mel, GM6JAG and others have told me about.

I can probably squeeze an FT-290 type rig (minus the 25w amp) into the bags along with the 20m SST and run the whole batch off a stack of C-cells or a camcorder battery. Not the case with a 10m rig and an xverter.

So, for now I'll keep looking for the Ft-290 and keep the xverter in mind as plan B. BTW, does anybody know the power consumption for the Tentec 2m xverter? If Dave, NN1G decided to sell a White Mountain rig for 10m, that might make me rethnk the decision... and if it also worked CW.

Ain't this fun!

72,

Jim, Wk8G & M0BRQ
nestoji@home.com

Date: Thu, 4 Jun 1998 17:35:00 -0500
From: nilsbull@juno.com (Nils R Young)
To: n4xy@att.net
Cc: qrp-1@Lehigh.EDU
Subject: [12390] Re: LCDs in older rigs/etc.
Message-ID: <19980604.174323.9102.0.nilsbull@juno.com>

Gang,

I have four counter boards here.

One is the Hands counter kit that I bought two Dayton's ago. It's a very good counter and has nice resolution above (I think) 30 MHz. However, with the Argosy it's only accurate to, say, about 200 Hz. In other words, no 100 Hz read-out. LEDs. Slow count rate, so it "rubber bands" And a

marker signal that shows up at the X.000 MHz point on most band in the Argosy.

I have two other LED counters, both the same circuit, one sold under the Radio Adventures Corp logo and the other under the OHR logo. Very spiffy counter. Nice count rate (no discernable "rubber band" action), 100 Hz (selectable) accuracy. No marker signal that I've found in playin' with 'em.

And I have Mikey Gipe's counter, which is LCD. Mike's counter has the 100 Hz readout, a built in push-the-button-to-get-the-time deal & a way to get the MHz read too. Nice counter. Doesn't seem to have a marker in the ham bands. Good board (even I didn't munge it up) and a very nice sized display. LCDs, as I said. A very nice counter and, with the display remoted, would fit in the Argosy, although it does "rubber band" a bit..

So . . . IF I could get my wish, there'd be two different display sizes for the RAC/OHR counter, or a smaller LCD display for Mikey's counter. Or 100 Hz resolution and no marker in the Hands counter.

Mike's counter is the easiest to fit, 'cause the display is just barely larger than the window and it'd fit if I were careful. So it's the first possibility. The OHR/RAC counter display board is too long to fit in the Argosy without serious plastic surgery, which I why I'd like to see a smaller display board or larger display blocks and all that on a smaller board. Or something.

So yeah, let's talk about this. How can I map a smaller display for Mike's counter? Or get a 4-digit display for the OHR/RAC counter? Or 100 Hz res & no marker for the Hands counter?

73
Nils

Nils R. Bull Young
La Estancia de los Guajolotes Sonrientes :: The Grinnin' Turkey Ranch
WB8IJN &c :: The Tagalong Press :: email to: nilsbull@juno.com
<http://www.geocities.com/Athens/Olympus/9172>

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End of QRP-L Digest 1112
